

## CLAIMS

1. A television display unit (1) comprising a receiver (3,4,5) for a plurality of channels of television signals,  
5 means (7) for displaying signals of a television channel,  
means (3,4,5) for inputting signals of another television channel,  
means (8) for displaying one channel as a reduced image additional to the main display in the on-screen-display plane.
- 10 2. A unit (1) according to Claim 1 comprising means (8) to effect real-time decoding for displaying one channel as a rendered image in the on-screen-display plane.
- 15 3. A unit (1) according to Claim 2 comprising means (8) to effect time-sharing of the signals for decoding.
- 20 4. A unit (1) according to Claim 2 or 3 comprising conversion means (8) from full-colour video pictures to palette-based pictures for reduced-image display on the OSD plane.
5. A unit (1) according to Claim 4 wherein the conversion means (8) comprises quantization means (30) for the pixel values and means (31) to add a palette entry for each palette colour not yet in the palette.
- 25 6. A unit (1) according to Claim 4 or 5 wherein the conversion means (8) comprises means (32) to run length encode the pixels to produce groups of comparable value.
- 30 7. A unit (1) according to Claim 6 wherein the conversion means (8) comprises means (32, 33) to reduce the quantization level until attainment of a required colour level.

8. A unit (1) according to Claim 6 wherein the conversion means (8) comprises means to map the pixels to the palette colours.

9. A television display unit (1) substantially as hereinbefore  
5 described with reference to and/or as illustrated in any one or more of the Figures of the accompanying drawings.

10. A method of operating a television display unit (1) for a plurality of channels of television signals, the method comprising displaying signals of a television channel, inputting signals of another television channel, displaying  
10 one channel as a reduced image additional to the main display in the on-screen-display plane.

11. A method according to Claim 10 comprising effecting real-time  
15 decoding for displaying one channel as a reduced image in the on-screen-display plane.

12. A method according to Claim 10 or 11 comprising effecting time-sharing of the signals for decoding.  
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13. A method according to Claim 11 or 12 comprising converting from full-colour video pictures to palette-based pictures for reduced-image display on the OSD plane.

25 14. A method according to Claim 13 wherein the converting step comprises quantizing the pixel values and adding a palette entry for each ~~palette~~ colour not yet in the palette.

15. A method according to Claim 13 or 14 wherein the converting  
30 step comprises run length encoding of the pixels to produce groups of comparable value.

16. A method according to Claim 15 wherein the converting step comprises reducing the quantization level until attainment of a required colour level.

5 17. A method according to Claim 15 wherein the converting step comprises mapping the pixels to the palette colours.

10 18. A method of operating a television display unit (1) substantially as hereinbefore described with reference to and/or as illustrated in any one or more of the Figures of the accompanying drawings.

15 19. A computer program product directly loadable into the internal memory of a digital computer, comprising software code portions for performing the steps of any one or more of Claims 10 to 18 when said product is run on a computer.